OK

Depth 6	Contents 7	Reference to last Measurement 8

First and Final Bill

BR_566 Dt 9/16

M. A. R. 57 (Rule 116

Measurement Book

No. B

Serial No. .....

Name of Work Improvement and Asphalting to Roads at various areas in ward no. 09 in Vidyaranyapura Sub ... and surrounding

From 265333

Name of Contractor of nature of Agency M/S. Nandi Enterprises ... Vijay Babu

Date of commencement of work # 1504, 4th 'c' main, 2nd Stage, WOC Road, B'lore-86.

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Job code: 009-16-000008						
	Work code No: BBMP/EE/BTP/WO/124/2016-17 Date: 20.09.2016.						
	Est cost: 35.00 Lakhs						
	1) Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2m and an average lift up to 0.5m excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking if clods complete as per specification.						
	As per premeasurement Recorded vide page No. 265323 to 325 of this MB i/s					1177.75 m³	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Qty	up to	125%	1005.00 m³	1005.00 m³
					Cum	75.00 m³	75375=00
			Qty above 125%			172.75 m³	
					Cum.	79.83 m³	13790=00
	2) Removing RS slab of drain and stacking cft complete						
	As per measurement Recorded vide						
	page no: 265325 to 251, of MB 1's					1471.50 m²	
			Qty up to 125%			928.13 m²	
					Cum.	58.00 m²	53831=00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	3) Refixing stone slab f complete

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
	125%	1005.00 m³	1005-00 m³
	e/h	75.00/m³	75375=00
	125%	172.75 m³	
	e/h. 79.83/m³		13790=00
	complete		
	ent Recorded vide		
	sl. 8 of this MB i/s	1471.50 m²	
	125%	928.13 m²	
	h. 58.00/m²		53831=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265334

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
			Qty	above 125%		543.38 m²	
				e/h. 61.16/m²			33235=00
3)	Refixing stone slab of drains and pointing in CM (1:3) etc complete						
		Qty vide Item No. ②				1471.50 m²	
		Qty upto 125%				928.13 m²	
				e/h. 75.00/m²			69609=00
		Qty above 125%				543.38 m²	
				e/h. 75.68/m²			41122=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4) providing and laying in position plain cement concrete of mix 1:4:8 with opc cement @ 180 kgs with 40 mm and down size graded granite metal coarse aggregate @ 0.85 cum and fine aggregate @ 0.57 cum machine mixed concrete laid in layers not exceeding 15 cm thick well compacted in foundation and plinth including cost of all materials complete as per specifications. As per premeasurement Recorded vide page No: 265325 li to 26 of this MB i/s 44.70 m³ 40.86 @ Rs 4000/- /m³ 163440 ~~178800.00~~						
	SL No. 05 not executed						
	6) providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20 mm and down size graded granite metal coarse aggregate @ 0.878 cum and fine aggregate @ 0.45 cum machine mixed concrete laid in layers not exceeding 15 cm						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	
	thick well compacted in b cost of materials as complete	
	7) providing and laying in positio mix M20 with opc cement @ 3 metal coarse aggregate @ 0.878 super plastisizer @ 3 lts confirm	

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
ent concrete of mix and down size granite fine aggregate @ 0.57q exceeding 15cm thick including cost of cube			
ment Recorded vide to 26 of MB 1.15		44.70 m³ 40.86	163440
@ Rs 4000:00/m³			788800:00
ment concrete of mix el down size granite el fine aggregate @ ers not exceeding 15cm			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265335

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Thick well compacted in foundation plinth and sills including cost of materials as complete as per specification.						
		1	6.30	1.80	0.10	1.13	
		1	4.50	1.80	0.10	0.81	
						1.94 m³	
				@ Rs	5000:00/m³		9720:00
7)	providing and laying in position reinforced cement concrete of design mix M20 with ope cement @ 320 kgs with 20mm and down size granite metal coarse aggregate @ 0.878 cum and fine aggregate @ 0.459 cum with super plastisizer @ 3 lit confirming to IS 9103-1999 reaffirmed-2008						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	machine mixed concrete laid in layers not exceeding 15cms thick vibrated layers in layers for all works in foundation plinth and ground floor level for roof slab staircase lintel etc complete.						
	Culvert Deasilt	1	6.80	1.80	0.23	2.81	
		1	4.50	1.80	0.23	1.86	
	cc 20 act	1	30.00	(6.1+5.8)	0.125	22.31	
		1	12.80	(5.8+5.5)	0.10	7.23	
						32.80 m³	
					@ 5000:00/m³		164000 — 163980:00
8)	providing TMT steel infarcement for RCC work including straighting cutting bending, hooking placing in position lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ..
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	members wherever needed wastage shall not be measu complete as per specification As per Page
9)	providing and removing and removal of form work roof landings balconies work of materials labours

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
12	5%	152.21 m²	250428=00
		1645.28 m²	
	bitumen emulsion		
	WBM WMM including		
	at the rate of 0.60 kg/sq		
	location		
	ent Recorded vide		
	of LPWD MB 1/5		
		3850.00 m²	
		3781.25 m²	
	5%		
	Rs 31.00/sq.m		117219=00
		68.75 m²	1853=00
	5%		
	Rs 26.95/sq.m		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265338

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
13)	providing and laying semi dense bituminous concrete using crushed aggregates of specified grading premixed with bituminous binder and hiller transporting the hot mix to work site layers with a mechanical paver finisher with sensor control to the required grade and level and alignment rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per cell reference with 100-120 TPH capacity HMP with sensor paver of 2.5 m to 3.0 m) with 5% VG-30 bitumen complete						
	Vaishnavi Layout main Road	1	30.00	(5.1+4.2)/2	0.025	3.49	
		1	30.00	(4.2+4.5)/2	0.025	3.26	
		1	28.00	(4.5+6.2)/2	0.025	3.75	
		2+1				x	

P.U. (W, B)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	(4.8+5.0)/2	0.025	3.68	
		1	30.00	(5.0+4.75)/2	0.025	3.66	
		1	30.00	(4.75+4.7)/2	0.025	3.54	
		1	30.00	(4.7+5.0)/2	0.025	3.64	
		1	30.00	(5.0+5.6)/2	0.025	3.98	
		1	30.00	(5.6+5.7)/2	0.025	4.24	
		1	30.00	(5.7+6.1)/2	0.025	4.49	
		1	29.20	(6.1+5.9)/2	0.025	4.68	
		1	30.00	(5.0+3.5)/2	0.025	3.19	
	27/x ಪ್ರ.ಅ. (ಬಾ.ಪ)						
	2nd cross						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	3rd cross
	27/x ಪ್ರ.ಅ. (ಬಾ

OK

	Depth 6	Contents 7	Reference to last Measurement 8
)	0·025	3·68	
)	0·025	3·66	
)	0·025	3·54	
)	0·025	3·64	
)	0·025	3·98	
)	0·025	4·24	
)	0·025	4·63	
)	0·025	4·68	
	0·025	3·19	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265339

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	3 rd cross	1	30·00	(3·5+3·85)	0·025	2·76	
		1	30·00	(3·85+3·6)	0·025	2·79	
		1	34·00	(3·6+4·5)	0·025	3·44	
		1	30·00	(4·8+4·3)	0·025	3·41	
		1	30·00	(4·3+4·1)	0·025	3·15	
		1	30·00	(4·1+4·6)	0·025	3·19	
		1	30·00	(4·6+3·8)	0·025	3·08	
		1	19·50	(3·8+4·8)	0·025	2·10	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2 C&FC.	3	4	5	6	7	8
	Cross Road 3	1	30.00	(5.1+5.0)	0.025	3.79	
		1	30.00	5.00	0.025	3.75	
	8th Across Sirwathi Rd	1	30.00	(5.5+5.0)	0.025	3.94	
		1	30.00	(5.0+5.3)	0.025	3.88	
		1	30.00	5.30	0.025	3.98	
		1	6.80	(5.3+5.5)	0.025	0.92	
	Cross Road 4	1	30.00	(5.2+4.8)	0.025	3.75	
		1	8.30	4.80	0.025	1.02	
	Internal Road 1	1	27.00	4.00	0.025	2.70	
						97.12 m³	
				Qty upto 12.5%		96.25 m³	801205=00
						@ Rs 8475=00/m³	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	14) Lead for disposal of c mechanical means incl

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
+5.00	0.025	3.75	
00	0.025	3.75	
5+5.00	0.025	3.94	
0+5.30	0.025	3.86	
5.30	0.025	3.88	
3+5.50	0.025	0.82	
5.2+4.80	0.025	3.75	
4.80	0.025	1.02	
4.00	0.025	2.70	
		97.12 m³	
upto 125%		96.25 m³	801205:00
		eq 8475:00 [illegible]	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265340

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
			adj above 125%			1.71 m³	
				eq	6465.85 m³		110[illegible]:00
14)	Lead for disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading as complete						
			adj vide item No. ①			1178.53 m³	
			adj upto	125%		1005.18 m³	
				eq	73.00 m³		73365:00
			adj above	125%		173.53 m³	
				eq	70.81 m³		12288:00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	EIRL						
15)	providing granite slabs of selected quality roughly dressed and bisad in cement mortar (1:6) including fixing curing etc complete 7.5 cm thick						
	Vidhanari Layout main Road	2x4	30.00	-	1.35	324.00	
		1	28.00	-	1.35	37.80	
		1	28.20	-	1.35	38.08	
	cross Road 4	2	30.00	-	1.35	81.00	
		2	27.50	-	1.35	74.25	
	Interior Road 1	1	29.00	-	1.35	39.15	
						594.00 m²	
				Cft. 636.53/m²			378088.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wor
1	2
16)	providing and compl in foundation with ce course not less than 2 course including cost
17)	providing raked joint 1:4 20 mm deep after including cost of mate

BOOK

s		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
		ghly dressed and curing etc complete	
-	1.35	324.00	
-	1.35	32.80	
-	1.35	38.48	
-	1.35	81.00	
-	1.35	74.25	
-	1.35	39.15	
		594.00 m²	
. 636.53/m²			378099.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265341

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
16)	providing and constructing cranite / trap / basalt rise stone masonry in foundation with cement mortar 1:6 stone hammered dressed in course not less than 20 cm high sound stones at 2m apart in each course including cost of materials etc complete						
		2	6.30	0.60	1.00	7.58	
		2	4.50	0.60	1.00	5.40	
						12.98 m³	
					@	3969.45/m³	51545.00
17)	providing raked pointing to courses stone masonry with cement mortar 1:4 20mm deep after raking joints to depth of 20mm nicely finishing including cost of materials labour etc complete						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	6.30	-	0.80	11.34	
		1	4.50	-	0.80	8.10	
						19.44 m²	
				@ Rs 93.30/m²			1816=00
18)	Construction of embankment with approved material gravel/murum with all lifts and leads transporting to site spreading evenly to required slope and compacting to meet requirement table 300-2 complete as per specification (which includes cost of gravel/murum watering charges and compaction by vibrating Roller) as complete						
	As per Pre measurement Recorded vide Page no: 2653 31/2 to 33 & this MB is					288.75 m³	
				@ Rs 298.57/m³			86211=00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	certificate:
	certified

OK

Depth 6	Contents 7	Reference to last Measurement 8
0.90	11.34	
0.90	8.10	
	19.44 m²	1816=00
30/m²		
ural gravel/murum		
ding grading to		
cable 300·2		
f gravel/murum		
) as complete		
ercharge rate		
this MB is		
	288.75 m³	
88.57/m³		81211=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265342

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

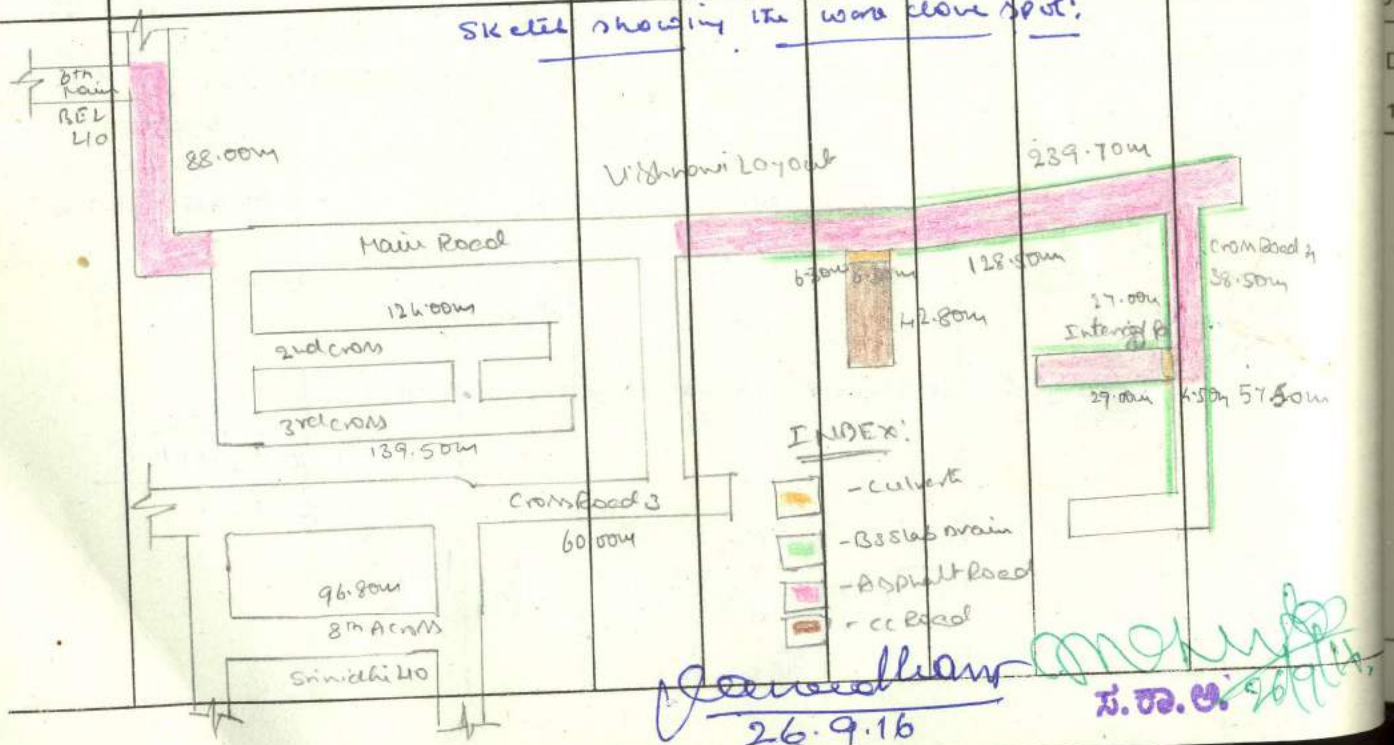
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
					Total		33,24,646=00
	certificate:						
	certified that the above work done is satisfactorily.						
						Varadhan 26.9.16	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Sketch showing the work done spot:



26.9.16

S.O. 26/9/16

Serial No. BR/566/27

Name of Work .....

Name of Contractor of nature of A

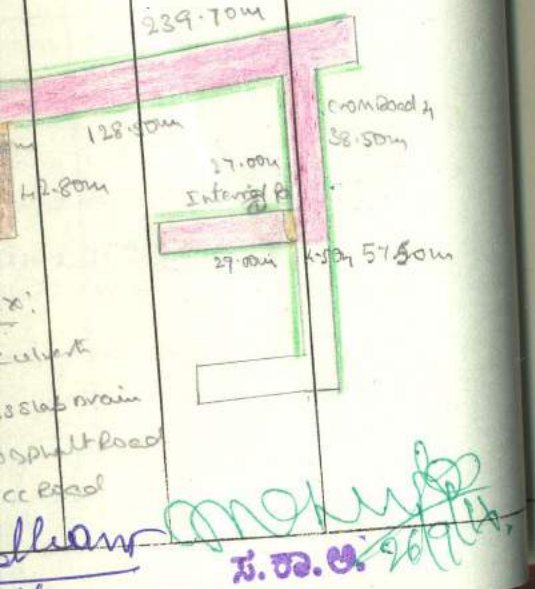
Date of commencement of work ..

Date	Full description, etc, of w
1	2

Audited & Admitte
332
3025
and Rs 290
Accts. Sysdt.
Byatarayanapura
BBMP

OK

Depth 6	Contents 7	Reference to last Measurement 8
close spot:		



BR/566/27.10.16:

M. A. R. 57 (Rule 116)
Measurement Book

...B

265343

Serial No. .....
Name of Work ..... From..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Audited & Admitted for Rs 3324646-00 3025104-00 by Cheque and Rs 299542-00 by Demand Accts. Supdt Exe. Engineer Byatarayanapura Dn Byatarayanapura Dn. BBMP BBMP. 3/11					Total Rs: 3324646-00 ST - 66493-00 VAT - 132986-00 Cess - 33246-00 CSF - 3325-00 LR - 63492-00 Adj. 299542-00 Chqs: 3025104-00	